AMERICAN UNIVERSITY of Beirut OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN : DIRECTOR

HALIM HOURANI : OBSERVER

BEIRUT, LEBANON

Latitude : 33° 54' 22" N.

Longitude : 2^h 21^m 52^s . 7 E.

LIBRARY
JAN 16 1962
WEATHER BUREAU

October - 1961

OCTOBER 1961

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. †...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	60.7	59.3	58.9	59.6	26.2	21.1	23.0	25.2	23.9	24.0
2	59.5	57.8	58.0	58.4	26.9	22.3	23.6	25.9	24.9	24.8
3	58.6	57.6	58.1	58.1	27.3	21.7	25.0	25.7	23.5	24.7
4	59.3	58.5	59.6	59.1	29.0	21.5	23.7	28.5	23.5	25.2
5	59.6	58.9	60.0	59.5	28.8	21.2	24.0	28.4	23.2	25.2
6	59.9	58.5	58.7	59.0	28.2	21.4	23.2	27.1	22.8	24.4
7	59.5	58.8	59.6	59.3	28.0	21.5	23.7	26.0	22.8	24.2
8	61.1	60.0	60.3	60.5	26.9	21.3	23.5	26.2	22.6	24.1
9	61.4	60.7	60.8	61.0	26.9	20.9	23.7	25.4	24.0	24.4
10	61.3	60.4	59.9	60.5	26.0	21.9	23.4	25.0	23.8	24.1
11	59.0	58.0	58.4	58.5	26.2	22.0	24.0	24.8	24.5	24.4
12	59.9	60.1	61.0	60.3	28.8	21.6	24.4	27.7	23.1	25.0
13	61.6	62.0	62.8	62.1	28.7	21.5	24.8	27.5	23.0	25.1
14	63.5	63.2	63.9	63.5	25.3	19.1	22.2	24.5	21.0	22.6
15	63.4	62.3	62.7	62.8	25.6	18.2	21.1	25.0	20.5	22.2
16	62.9	62.6	62.7	62.7	26.0	18.2	21.2	24.4	20.5	22.0
17	63.2	61.5	61.0	61.9	25.0	20.0	21.0	23.6	22.0	22.2
18	60.4	59.2	59.5	59.7	28.1	20.7	22.2	25.8	22.2	23.4
19	61.2	60.9	61.1	61.1	25.7	21.3	23.0	24.4	21.7	23.0
20	61.5	60.5	61.1	61.0	27.0	20.2	22.2	25.4	22.2	23.3
21	61.3	60.2	60.9	60.8	24.9	20.2	22.2	23.5	22.5	22.7
22	61.8	61.1	61.7	61.5	24.7	20.5	21.5	23.6	22.9	22.7
23	64.0	63.2	63.6	63.6	25.1	22.1	22.2	24.5	23.0	23.2
24	65.0	63.6	63.2	63.9	25.9	21.9	24.0	25.0	24.4	24.5
25	61.8	60.3	59.9	60.7	29.6	22.0	23.4	27.5	23.4	24.8
26	59.6	59.1	59.0	59.2	27.4	20.5	23.2	25.2	23.0	23.8
27	60.0	59.5	60.2	59.9	26.6	20.3	23.8	25.0	20.6	23.1
28	57.8	58.5	59.2	58.5	24.6	18.7	22.7	22.7	20.0	21.8
29	59.8	59.4	60.5	59.9	26.1	19.1	22.4	24.1	20.6	22.4
30	60.6	60.3	61.6	60.8	25.6	19.0	21.7	24.2	20.5	22.1
31	62.6	61.7	62.2	62.2'	24.0	19.6	21.7	22.7	21.9	22.1
	61.02	60.25	60.65	60.65	26.61	20.69	22.96	25.31	22.53	23.60

Barometer, range 765.0 mm — 757.6 mm
» 71-yrs. average 761.31 mm.
Thermometer, range 29.6 °C — 18.2 °C
« 82-yrs. average 23.8 °C
Rain. total for month 5.83 mm
« 82-yrs. average for month 47.2 mm
« total from Sept. 1st. 12.98 mm
« 82-yrs. average from Sept. 1st. 53.83mm

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METEOROLOGICAL REGISTER

Date	Pressure of Water Vapour Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8 30	14:30	20 30	Mean	8.30	14:30	20:30	Mean	Hrs.	Kms.	m m
1	14.6	18.3	21.1	18.0	52	57	72	60	9.7	179	
2	17.8	22.6	20.6	20.3	62	67	65	65	9.6	193	
3	16.3	25.7	25.1	22.4	51	78	86	72	9.5	145	
4	23.4	26.4	25.1	25.0	80	68	86	78	9.4	61	
5	23.0	23.7	22.7	23.1	78	61	79	73	9.3	90	
6	21.4	22.6	20.8	21.6	75	63	75	71	9.5	50	
7	20.6	20.8	20.3	20.6	71	62	73	69	8.3	76	
8	20.8	20.6	19.0	20.1	71	61	70	67	8.3	42	
9	19.7	19.5	20.6	19.9	68	60	70	66	9.0	106	
10	18.9	21.6	22.7	21.1	65	68	78	70	9.1	190	
11	20.6	24.7	24.7	23.3	70	79	80	76	9.0	224	
12	22.1	22.9	23.0	22.7	72	62	81	72	9.0	126	
13	20.0	22.6	20.6	21.1	64	61	73	65	8.7	146	
14	18.1	14.6	14.1	15.6	68	48	56	57	5.1	169	
15	14.4	13.8	14.0	14.1	57	43	58	53	9.6	312	
16	16.8	13.5	13.5	14.6	67	43	55	55	7.2	135	0.80
17	13.0	14.1	16.4	14.5	52	49	68	56	10.1	161	
18	16.8	21.0	19.5	19.1	63	63	72	66	9.8	113	
19	20.1	19.5	20.0	19.9	71	64	77	71	8.3	84	0.10
20	18.1	19.1	19.5	18.9	68	58	72	66	8.0	119	
21	18.1	18.6	18.5	18.4	68	64	68	67	8.2	138	
22	16.2	19.3	20.5	18.7	62	67	73	67	10.0	227	
23	16.4	20.8	21.1	19.4	62	68	75	68	9.4	196	
24	15.0	20.7	16.8	17.5	50	65	54	56	9.2	193	
25	21.2	18.0	24.7	21.3	73	48	86	69	6.5	16	
26	21.9	23.9	22.4	22.7	77	75	80	77	8.0	80	
27	20.7	18.5	18.6	19.3	71	58	76	68	0.1	360	2.72
28	19.7	17.1	14.0	16.9	71	63	60	65	6.1	167	2.21
29	14.4	17.2	13.8	15.1	52	57	57	55	7.9	195	
30	17.1	18.3	18.5	18.0	62	61	76	66	9.7	109	
31	18.3	18.3	19.6	18.7	71	67	74	71	8.1	92	
	18.56	19.94	19.73	19.42	65.9	61.5	71.8	66.3	8.38	144.97	0.19

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric date from reading of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M. O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20.30 for the preceding 24 hours.
71 year averages are for period. 1875 - 1943

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METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	1ne	4ne	5ne	light	
2	0	0	0	0.0	3ne	4ne	4ne	,,	
3	0	1st	0	0.3	4ne	4ne	0	,,	D; p.m.
4	0	0	0	0.0	3sw	3sw	0	,,	D; p.m.
5	2st	0	0	0.7	4sw	3sw	0	,,	D; p.m.
6	0	0	0	0.0	3sw	2nw	1ne	light	
7	1cu	9cu-st	4cu-st	4.7	2sw	1nw	0	,,	
8	2cu-st	2cu-st	0	1.3	1w	2nw	2nw	,,	
9	0	0	6cu-st	2.0	1ne	3n	4ne	,,	
10	0	0	0	0.0	3ne	4ne	4ne	,,	
11	0	0	0	0.0	4ne	4ne	3ne	light	D; p.m.
12	1cu	0	0	0.3	2sw	3sw	0	,,	D; p.m.
13	1cu-st	8cu-st	1cu-st	3.3	3sw	4sw	3sw	,,	
14	9cu-st	9cu-st	4cu-st	7.3	5sw	5sw	3nw	,,	
15	3cu-st	2cu-st	10cu-st	5.0	2sw	3sw	3sw	,,	
16	6cu-st	2cu-st	2cu-st	3.3	3sw	3n	0	light	
17	0	0	1cu-st	0.3	2e	4ne	3ne	,,	
18	0	0	0	0.0	3sw	3n	3sw	,,	
19	4cu-st	8cu-st	10cu-ni	7.3	2sw	3sw	0	,,	
20	9cu-st	4cu	7cu	6.7	3sw	3w	4w	,,	
21	9st-cu	5st-cu	8cu	7.3	1sw	3ne	1ne	light	
22	0	0	0	0.0	2ne	3ne	5ne	,,	
23	0	0	0	0.0	3e	4e	3ne	,,	D; p.m.
24	0	1ci	0	0.3	5ne	5ne	2ne	,,	
25	9ci	10ci	8cu-ci	9.0	1e	1e	0	,,	D; p.m
26	5cu-st	8cu-st	0	4.3	2e	2ne	1ne	light	
27	10st	10st	10st	10.0	5ne	6nw	3se	,,	
28	4cu-st	5cu-st	0	3.0	1ne	3sw	2sw	,,	
29	2cu-st	6cu-st	7st	5.0	5sw	5sw	2sw	,,	
30	0	8st	1st	3.0	4w	4w	0	,,	
31	4ci	5st	1ci	3.3	1e	3ne	3ne	,,	
				2.83					

Abbreviation : G = gale ; H = haze ; M = mist ; T = Thunderstorm ; D = dew
W = strong wind ; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	10	5	0	0	14	2	0	0	31
14:30	3	11	2	0	0	9	2	4	0	31
20:30	0	13	0	1	0	5	1	2	9	31
Total	3	34	7	1	0	28	5	6	9	93

Number of days with rain 4, fog 0, Thunderstorms 0, gale 0

71-yrs. average number of days with rain during month 3.84